UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

August 1961

Part II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

CONTENTS

	Page
Topographic Chart No. 18	2
Sea Surface Temperature Charts, Eastern Pacific Ocean, August 1961	2

Bureau of Commercial Fisheries
Biological Laboratory
P. O. Box 6121, Pt. Loma Station
San Diego 6, California

* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

TOPOGRAPHIC CHART NO. 18

Topographic Chart No. 18, showing the character of the ocean floor from 4° S. to 3° N. latitude and from 90° W. to 100° W. longitude, was printed this month.

Topographic charts may be obtained from Inter-American Tropical Tuna Commission representatives or by writing directly to our San Diego address.

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN AUGUST 1961

Acknowledgments

The following organizations and stations contributed data for the August 1961 charts:

U.S. Weather Bureau, San Diego, California
U.S. Weather Bureau Ship Visitation Office, Long Beach California
U.S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U.S. Navy Branch Hydrographic Office, Honolulu, Hawaii; Seattle, Washington; San Francisco and Wilmington, California
U.S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California
U.S. Bureau of Commercial Fisheries, Biological Laboratories, Honolulu, Hawaii; La Jolla, California; Seattle, Washington
U.S. Bureau of Commercial Fisheries, Exploratory Fishing and Gear Research Base, Seattle, Washington
Hopkins Marine Station, Pacific Grove, California, by J. P. Balesteri
Humboldt State College by George Allen
Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; David Ortega at Manzanillo, Mexico; Romeo Valencia at Pt. San Jose, Guatemala; R.E. Pino at Pt. Armuelles, Panama; V. E. Castillo at Tumaco, Columbia; Gualberto Tapia at San Cristobal, Galapagos; Jose Lanchimba at La Libertad, Ecuador; A. Campos, Talara, Peru; R. Celis at San Juan, Peru

Inter-American Tropical Tuna Commission, La Jolla and Terminal Island, California; Piura, Peru
Kelco Company, San Diego, California
Newport Beach Lifeguard Service, Balboa, California
Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by R. W. Collins at Quatsino Lightstation; J. Rylin at Cape St. James Light; B. Stuart at Amphitrite Point Light; J.M. Hartt at Langara Island Light
Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein
Ships Frances Salman, Trolleggen, Elin Haven, Besseggen, Kongsholm and Santa Maria

Charts

Figure 1.-- Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperature at weather-ship stations. Numerals on shore are temperatures at coastal and light stations.

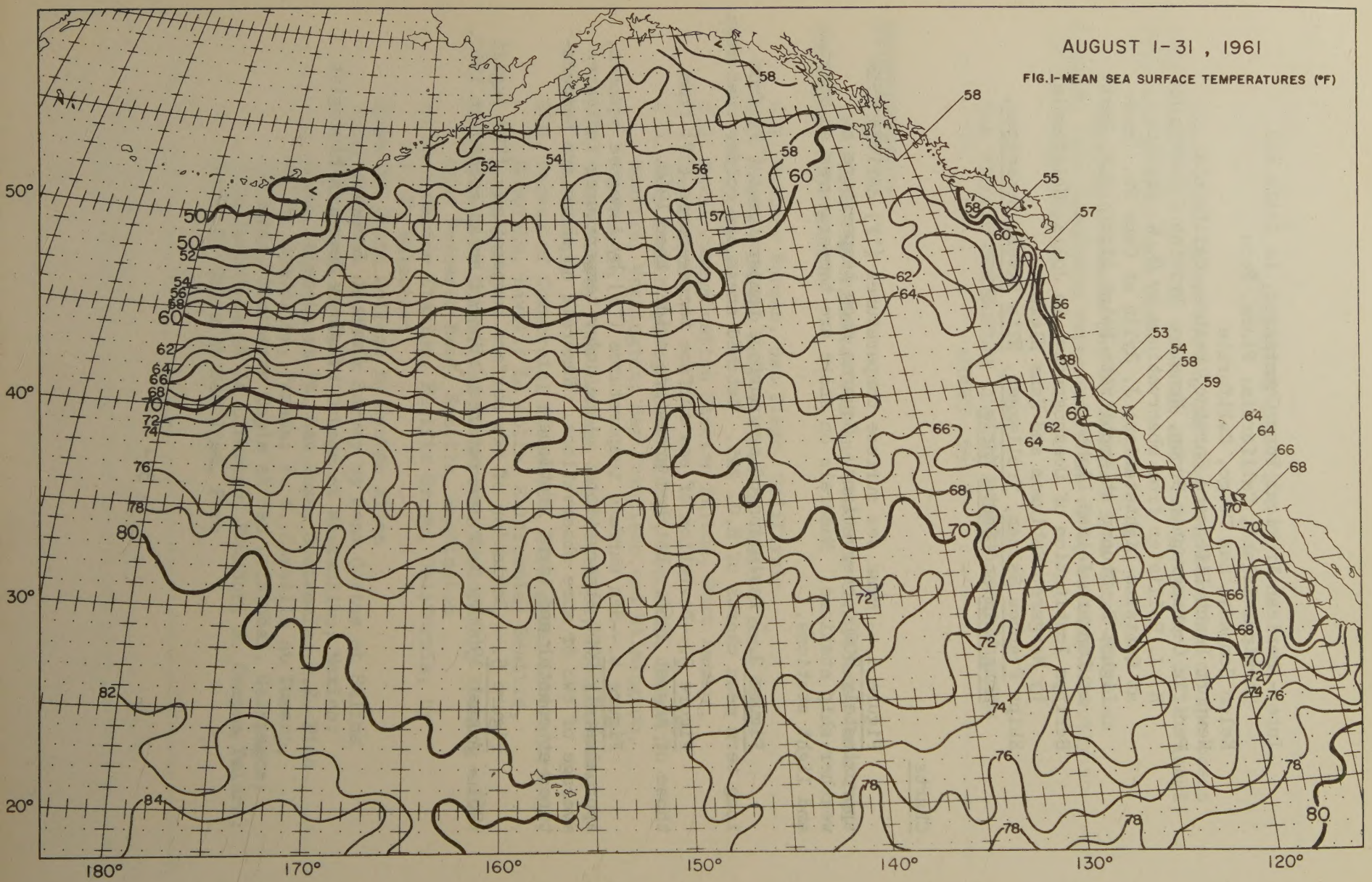
Figure 2.-- Deviation of sea surface temperatures (°F) from long term mean charts of H.O. 225. Hatched areas are colder than mean.

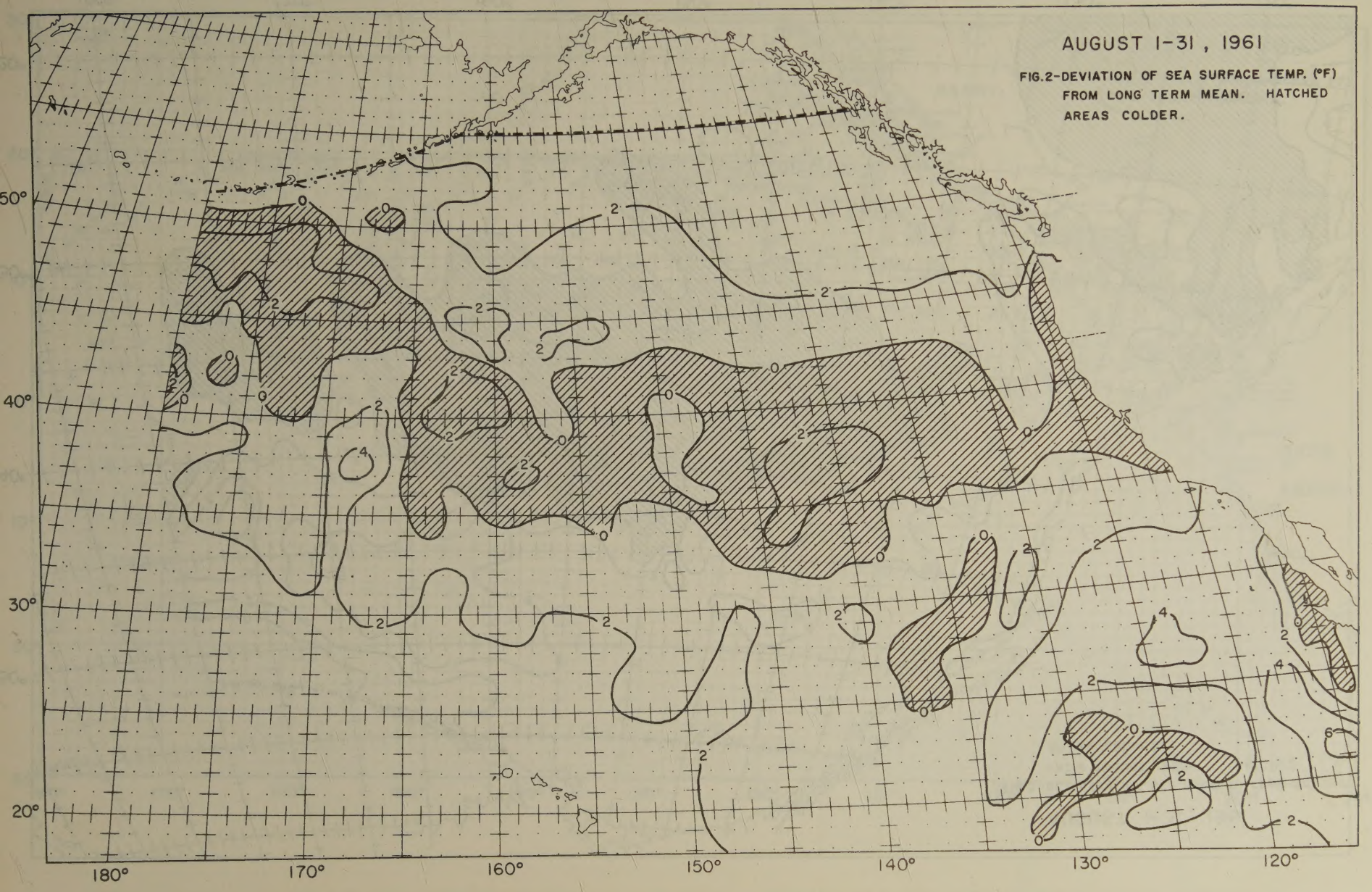
Figure 3.--Deviation of sea surface temperatures (°F) from those of August 1960. Hatched areas are colder than 1960.

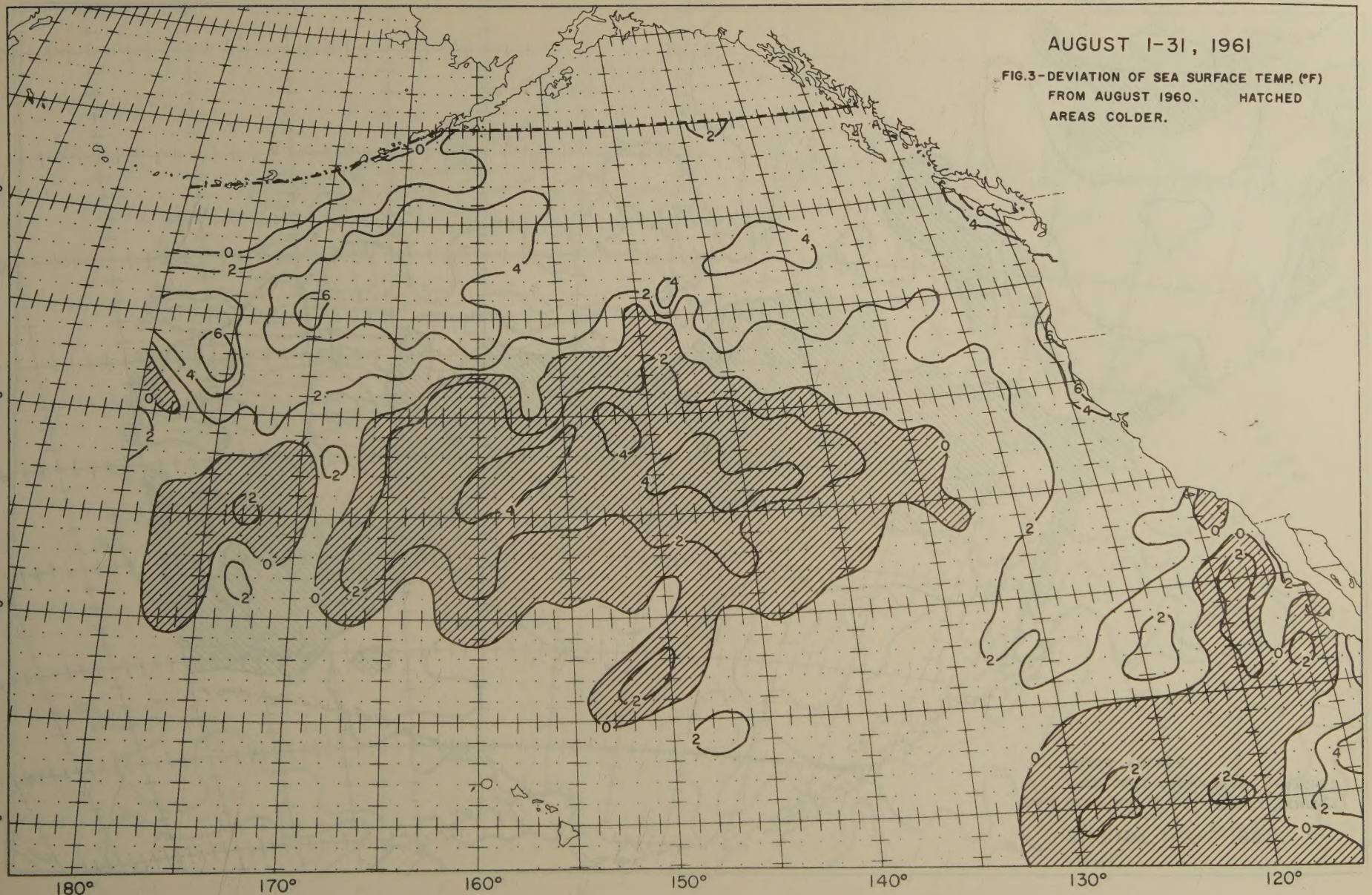
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

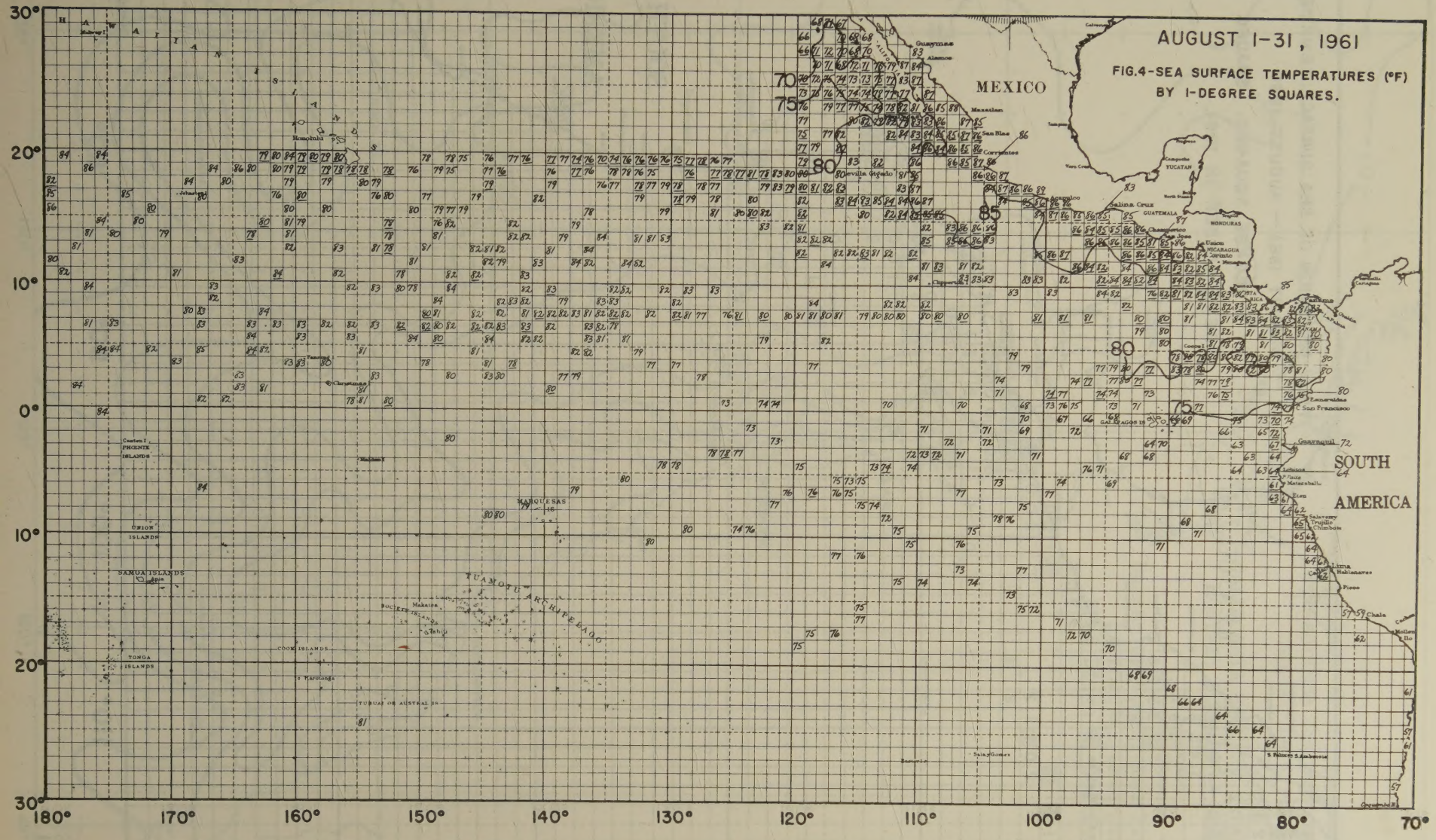
Figure 5.-- Deviation of sea surface temperatures (°F) August 1961 - August 1960 by 1-degree squares. Shaded areas colder in 1961.

James A. Renner
Fishery Research Biologist


AUGUST 1-31, 1961
FIG.1-MEAN SEA SURFACE TEMPERATURES (°F)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


AUGUST 1-31, 1961
FIG.2-DEVIATION OF SEA SURFACE TEMP. (°F) FROM LONG TERM MEAN. HATCHED AREAS COLDER.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


AUGUST 1-31, 1961
FIG.3-DEVIATION OF SEA SURFACE TEMP. (°F) FROM AUGUST 1960. HATCHED AREAS COLDER.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


AUGUST 1-31, 1961
FIG.4-SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
HAWAIIAN ISLANDS
Honolulu
Johnston I.
Christmas
Canton I.
PHOENIX ISLANDS
Malden I.
UNION ISLANDS
SAMOA ISLANDS
Apia
MARQUESAS
TUAMOTU ARCHIPELAGO
Makatea
Tahiti
COOK ISLANDS
Rarotonga
TONGA ISLANDS
TUBUAI OR AUSTRAL IS.
Guaymas
Mazatlan
San Blas
Manzanillo
Salina Cruz
GUATEMALA
HONDURAS
NICARAGUA
Corinto
Panama
Guayaquil
Salaverry
Callao
Lima
Pisco
Chala
Mollendo
Arica
70
75
80
85
90
30°
20°
10°
0°
10°
20°
30°
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°

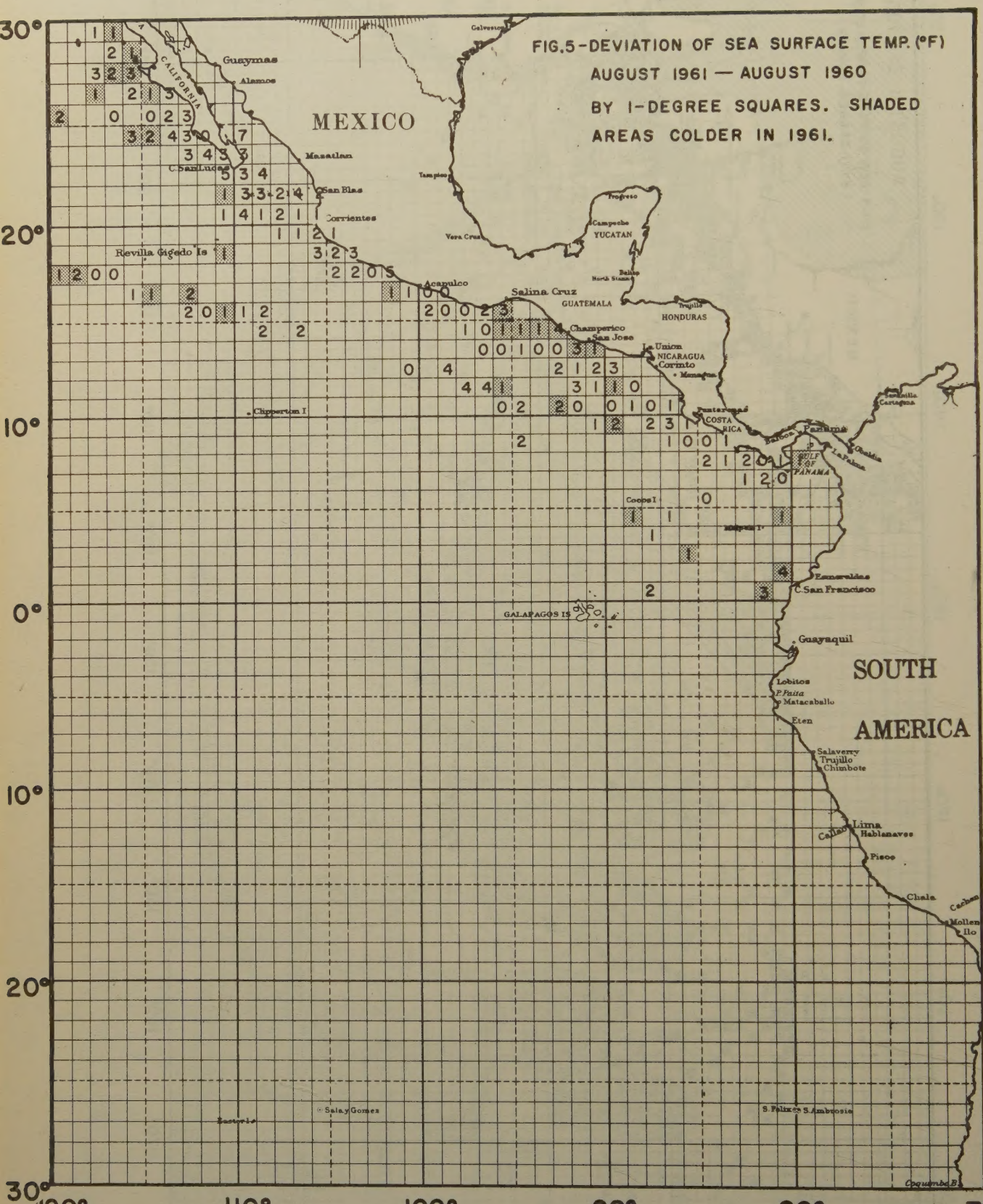
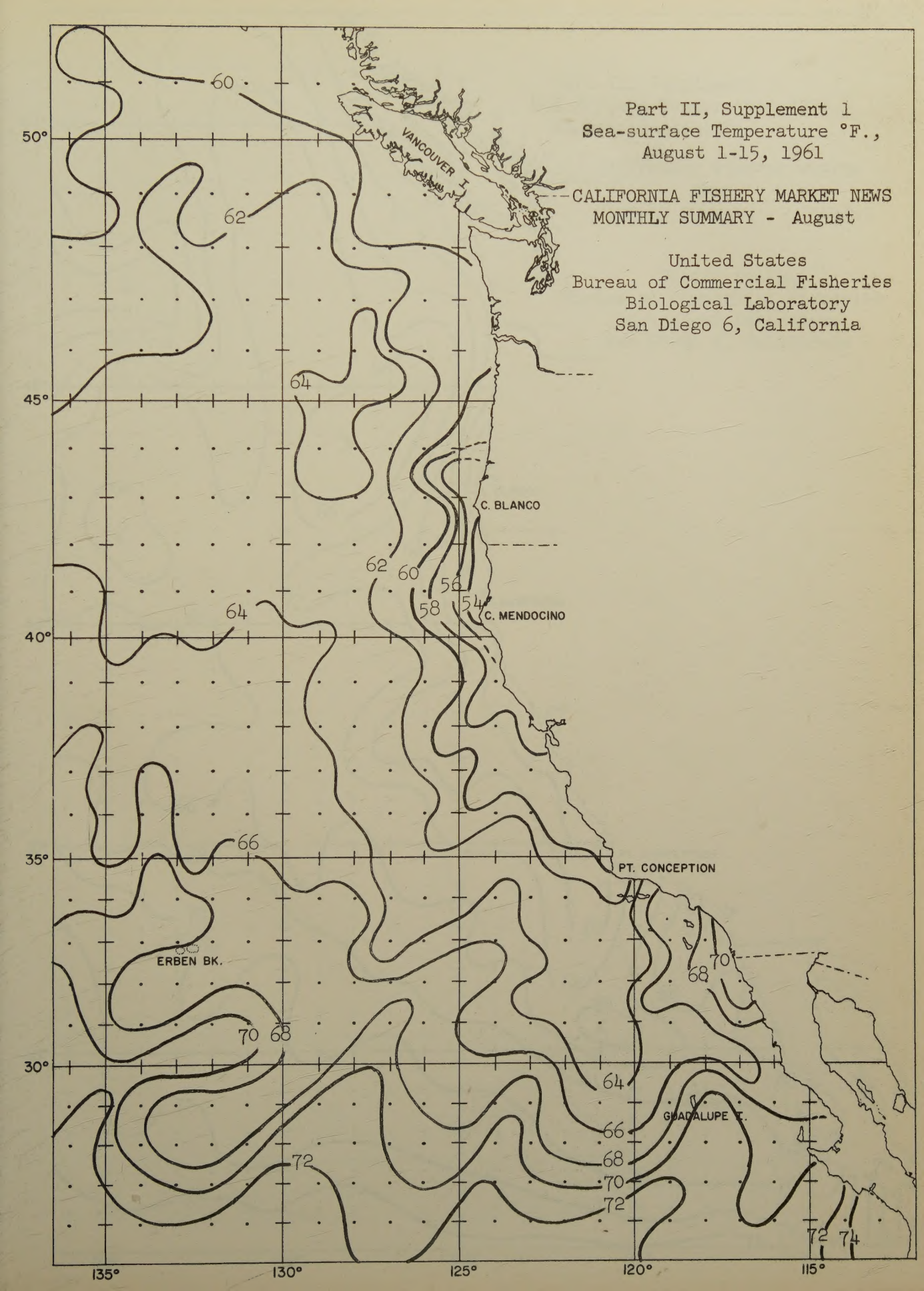
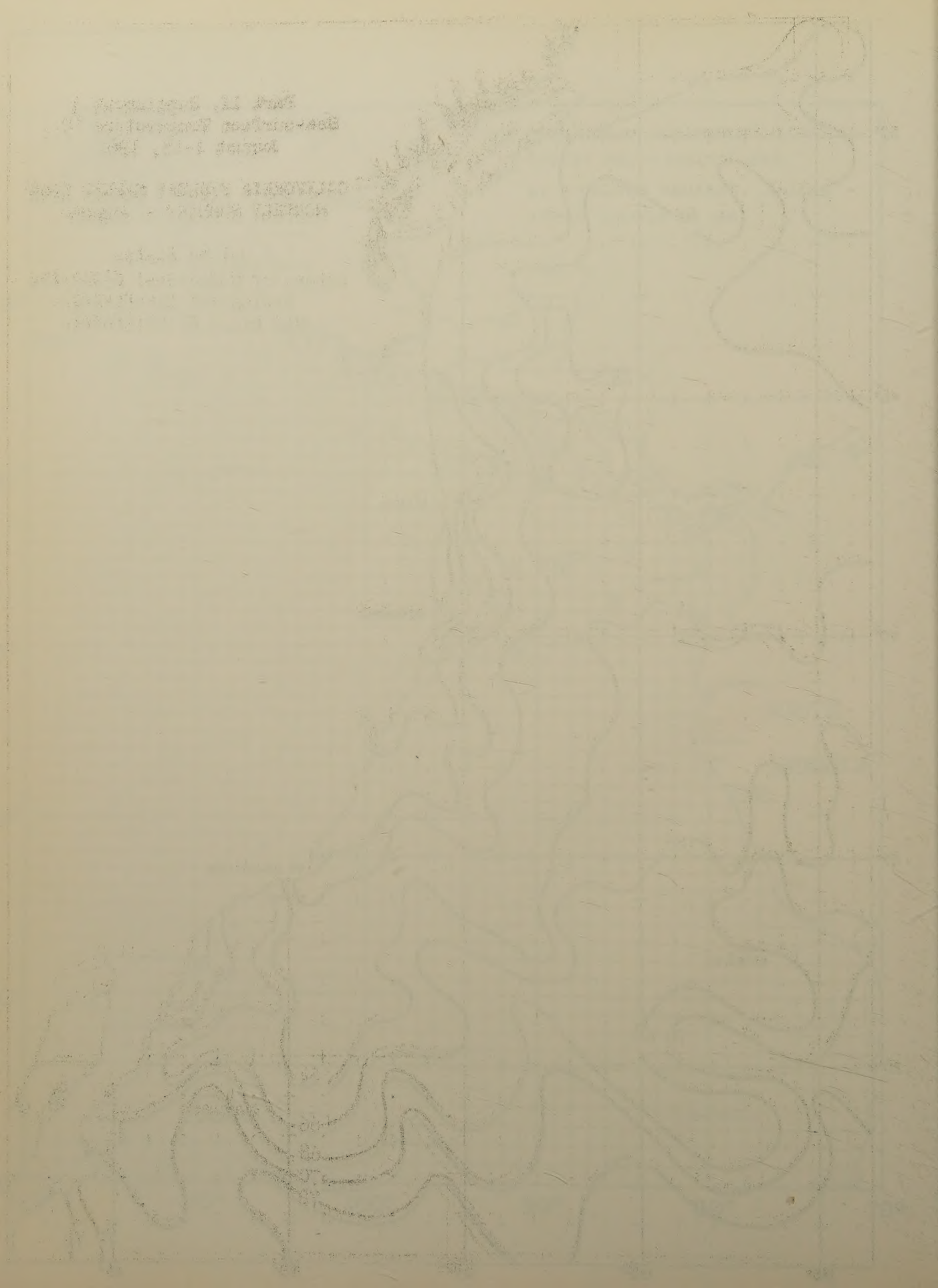
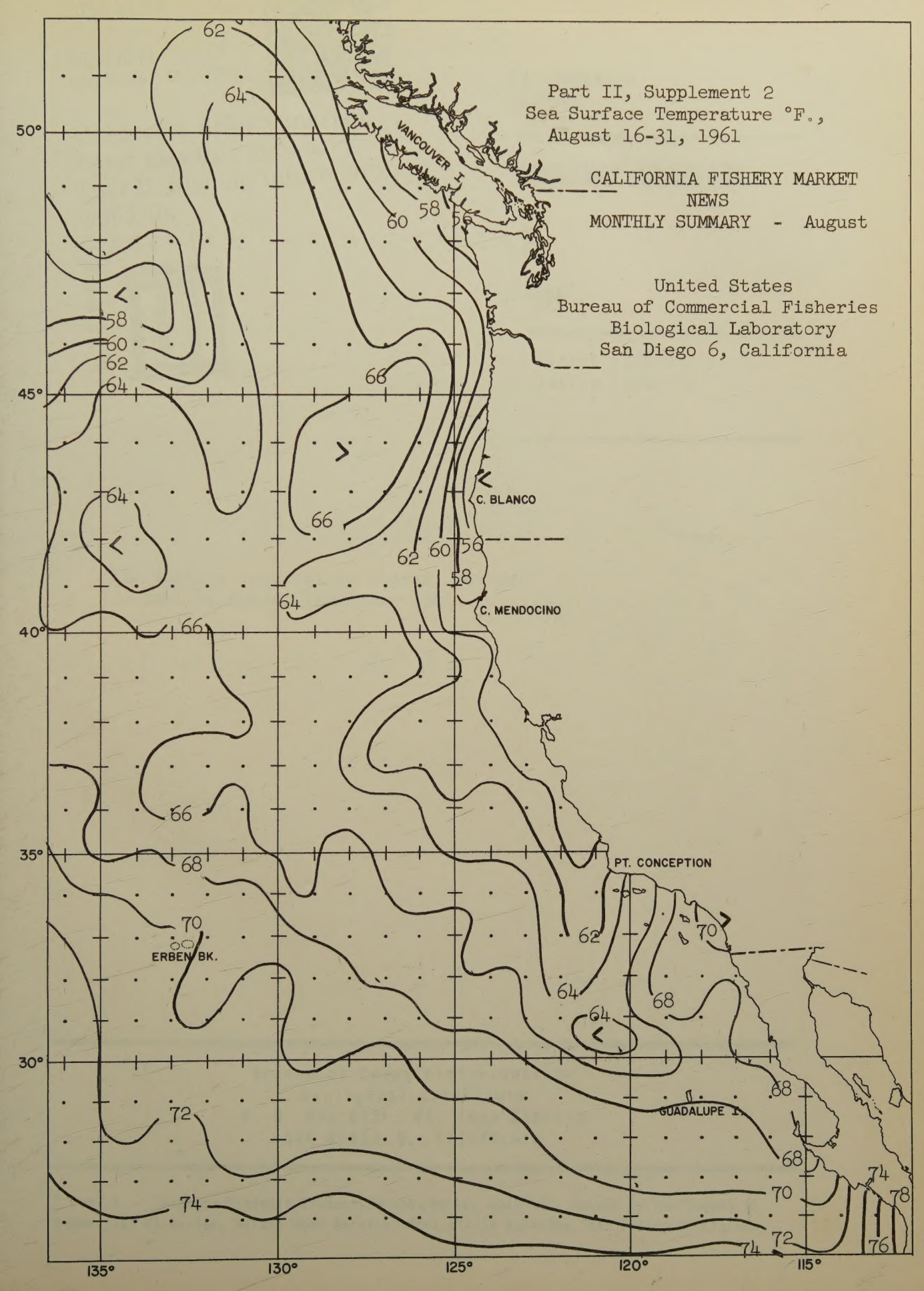


FIG.5-DEVIATION OF SEA SURFACE TEMP.(°F)
AUGUST 1961 — AUGUST 1960
BY 1-DEGREE SQUARES. SHADED
AREAS COLDER IN 1961.
MEXICO
SOUTH
AMERICA
GUATEMALA
HONDURAS
NICARAGUA
COSTA
RICA
YUCATAN
Guaymas
Alamos
Masatlan
San Blas
Corrientes
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Corinto
Panama
Buenaventura
Guayaquil
Lobitos
P.Pasta
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Huacho
Pisco
Chala
Caraveli
Mollendo
Ilo
Coquimbo
GALAPAGOS IS
Cocos I
Clipperton I
Revilla Gigedo Is
Sala y Gomez
S. Felix
S. Ambrosio
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°


Part II, Supplement 1
Sea-surface Temperature °F.,
August 1-15, 1961
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - August
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
VANCOUVER I.
C. BLANCO
C. MENDOCINO
PT. CONCEPTION
ERBEN BK.
GUADALUPE I.
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°
60
62
64
66
68
70
72
74
56
58
54




Part II, Supplement 2
Sea Surface Temperature °F.,
August 16-31, 1961
CALIFORNIA FISHERY MARKET
NEWS
MONTHLY SUMMARY - August
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
VANCOUVER I.
C. BLANCO
C. MENDOCINO
PT. CONCEPTION
ERBEN BK.
GUADALUPE I.
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°